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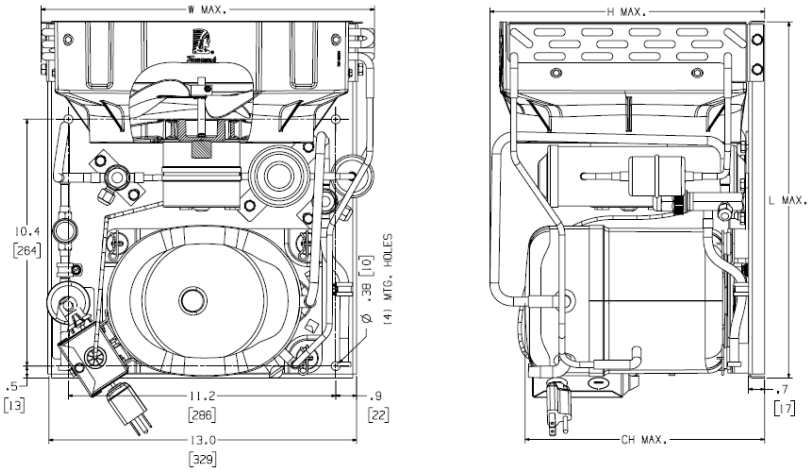
Revision: REL

Celseon® Air Cooled Condensing Unit

Model: AKA4457YAAD*
BoM: 2G222-** **R-134a** **1/2 HP**



Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AKA4457YAADA	15.0	14.0	11.2	10.1	3/8" S	1/4" S	N/A	185	17	52
AKA4457YAADG					3/8" S	3/8" S	2.5 lbs			54
AKA4457YAADH					3/8" S	3/8" S	N/A			52
AKA4457YAADK					3/8" S	1/4" S				52
AKA4457YAADC					3/8" S	3/8" S	2.5 lbs			54
AKA4457YAADS					3/8" S	3/8" S	N/A			52
AKA4457YAADJ					3/8" S	3/8" S	2.5 lbs			54
AKA4457YAADP					3/8" S	3/8" S	2.5 lbs			54

* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting
Factory charge: 20 PSIG Nitrogen – **MUST BE EVACUATED**

		Ambient Temperatures											
Evaporator T,		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
20	18.4	3874	648	109	3503	655	117	3110	657	126	2764	658	134
25	22.1	4313	693	113	3918	705	121	3498	710	129	3125	714	137
30	26.1	4760	742	117	4334	757	125	3887	768	133	3481	774	141
35	30.4	5214	794	120	4752	813	128	4278	828	136	3833	839	144
40	35.1	5675	849	124	5171	873	132	4671	892	140	4180	908	148
45	40.1	6143	908	128	5665	937	136	5065	960	144	4523	981	152
50	45.5	6618	970	132	6015	1004	140	5461	1031	148	4862	1059	156
55	51.3	7101	1035	136	6439	1074	145	5859	1106	152	5195	1142	160

60 Hz Performance

Return gas temp. 65°F, 5°F sub cooling

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Specifications/ Parts:

Unit Model	**AKA4457YAADA**
Unit Bill of Material	**2G222-09**
Refrigeration Range	20° F to 55° F
Design Pressure Low	150
Design Pressure High	235
Nominal Volts-Hz-Ph	115-60-1
Voltage Range	103 to 127
Min. Circuit Ampacity	12.3
Max. Fuse Size (amps)	20
Compressor Model	AKA4460YXA
Comp. Bill of Material	AK168AT-037-P2
Compressor RLA/LRA	9.5/48
Overload	External
Relay	82498-1
Run Capacitor	N/A
Run Capacitor Rating	N/A
Start Capacitor	85PS165C96
Start Capacitor Rating	161-193 MFD 165V
Fan Motor	810-10001
Fan Motor RLA	.38
Fan Blade	515-10002
Fan Shroud/Guard Combo	707-00004
Condenser	506-10004
Unit Drawing	DGU1970-03
Wiring Diagram	91266-01
Replacement Kit: Relay	K71-02
Replacement Kit: O/L	K90-23

Unit Model	**AKA4457YAADG**
Unit Bill of Material	**2G222-19**
Receiver Tank	510-10000
Liquid Valve	56630
Suction Valve	56630
Unit Model	**AKA4457YAADH**
Unit Bill of Material	**2G222-29**
Liquid Valve	56630
Suction Valve	56630
Unit Model	**AKA4457YAADK**
Unit Bill of Material	**2G222-39**
Power Cord	85106-14
Unit Model	**AKA4457YAADC**
Unit Bill of Material	**2G222-59**
Receiver Tank	510-10000
Liquid Valve	56630
Suction Valve	56630
Power Cord	85106-14
Unit Model	**AKA4457YAADS**
Unit Bill of Material	**2G222-69**
Liquid Valve	56630
Suction Valve	56630
Power Cord	85106-14
Unit Model	**AKA4457YAADJ**
Unit Bill of Material	**2G222-79**
Receiver Tank	510-10000
Liquid Valve	56630
Suction Valve	56630
Filter Drier	71116
Sight Glass	70084
Unit Model	**AKA4457YAADP**
Unit Bill of Material	**2G222-89**
Receiver Tank	510-10000
Liquid Valve	56630
Suction Valve	56630
Power Cord	85106-14
Filter Drier	71116
Sight Glass	70084

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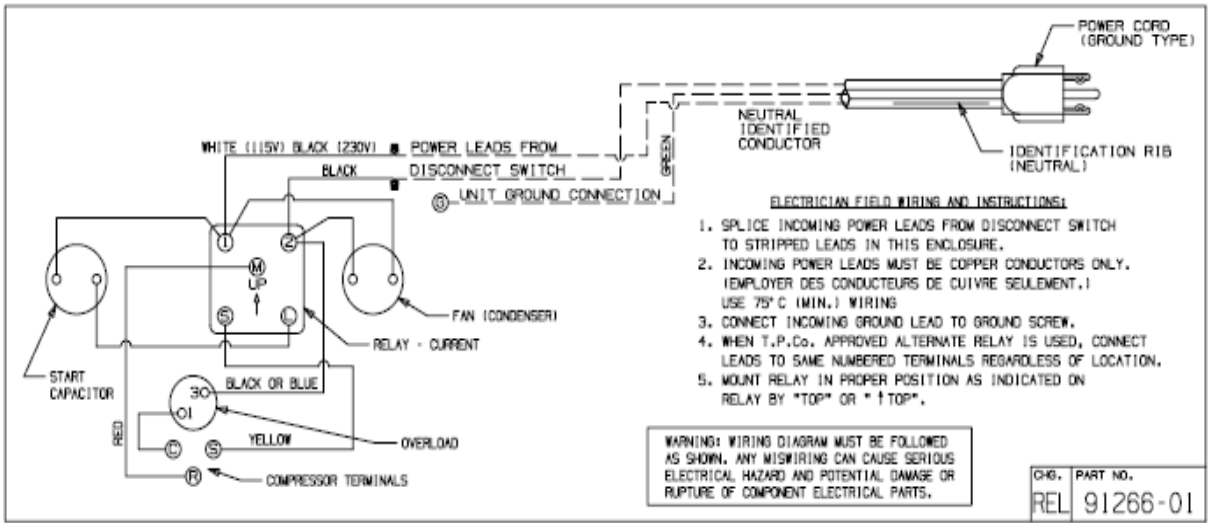
POWER CORD
(GROUND TYPE)
NEUTRAL
IDENTIFIED
CONDUCTOR
IDENTIFICATION RIB
(NEUTRAL)
WHITE (115V) BLACK (230V)
POWER LEADS FROM
BLACK
DISCONNECT SWITCH
GREEN
UNIT GROUND CONNECTION
ELECTRICIAN FIELD WIRING AND INSTRUCTIONS:
1. SPLICE INCOMING POWER LEADS FROM DISCONNECT SWITCH TO STRIPPED LEADS IN THIS ENCLOSURE.
2. INCOMING POWER LEADS MUST BE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.) USE 75°C (MIN.) WIRING
3. CONNECT INCOMING GROUND LEAD TO GROUND SCREW.
4. WHEN T.P.Co. APPROVED ALTERNATE RELAY IS USED, CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION.
5. MOUNT RELAY IN PROPER POSITION AS INDICATED ON RELAY BY "TOP" OR "↑TOP".
FAN (CONDENSER)
RELAY - CURRENT
START
CAPACITOR
BLACK OR BLUE
RED
YELLOW
OVERLOAD
COMPRESSOR TERMINALS
WARNING: WIRING DIAGRAM MUST BE FOLLOWED AS SHOWN. ANY MISWIRING CAN CAUSE SERIOUS ELECTRICAL HAZARD AND POTENTIAL DAMAGE OR RUPTURE OF COMPONENT ELECTRICAL PARTS.
CHG.
PART NO.
REL
91266-01